

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



PCT



(43) International Publication Date  
16 June 2005 (16.06.2005)

(10) International Publication Number  
**WO 2005/054258 A3**

(51) International Patent Classification<sup>7</sup>: C07F 9/06,  
A61K 39/39, A61P 35/00, 31/00, 37/00, A61K 31/66

(21) International Application Number:  
PCT/IB2004/00431 1

(22) International Filing Date:  
2 December 2004 (02.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PCT/IB2003/006375  
2 December 2003 (02.12.2003) IB  
60/579,237 15 June 2004 (15.06.2004) US

(71) Applicant (for all designated States except US): INNATE  
PHARMA [FR/FR]; Immeuble Grand Pre, 121, Ancien  
Chemin de Cassis, F-13009 Marseille (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BELMANT, Chris-  
tian [FR/FR]; 36, Impasse du Hameau de la Tour, F-83140  
Six-Fours-les-Plages (FR). NURY, Patrice [CWCH]; Car-  
bogen AG, Neulandweg 5, CH-5502 Hunzenschwil (CH).

(74) Agents: GALLOIS, Valérie et al; Becker & Associates, 25,  
rue Louis Le Grand, F-75002 Paris (FR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

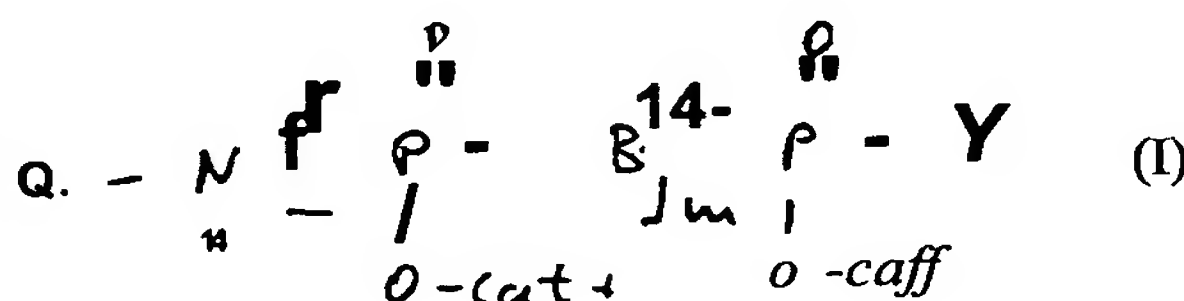
Published:

— with international search report

(88) Date of publication of the international search report:  
9 March 2006

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: NEW CLASS OF GAMMA DELTA T CELLS ACTIVATORS AND USE THEREOF



(57) Abstract: The present invention relates to a  
new class of compounds having  $\gamma\delta$  T cells activating  
properties of Formula (I), a composition comprising  
these compounds and methods for regulating an immune  
response in a subject comprising the step of administering  
these compounds.

WO 2005/054258 A3